

**RECEIVED
CENTRAL FAX CENTER****SEP 19 2007**IN THE CLAIMS

Please amend claims 1-19 as follows:

1. (CURRENTLY AMENDED) A method for transmitting signals, comprising:
transmitting an upper layer signal (1600) at a first power level within a frequency band (1608); and
transmitting a lower layer signal (1602) at a second power level within the frequency band (1608), the second power level being exceeded by the first power level;
producing a layered modulation signal for at least one receiver, the layered modulation signal comprising both the upper layer signal (1600) and the lower layer signal (1602) interfering with each other within the frequency band (1604) such that the upper layer signal (1600) can be demodulated directly from the layered modulation signal and the lower layer signal (1602) can be demodulated after subtracting the upper layer signal (1600) from the layered modulation signal; and
wherein the upper layer signal and the lower layer signal each have a bandwidth ratio of no more than 0.2 and substantially no guard band is used within the frequency band (1604).
2. (CURRENTLY AMENDED) The method of claim 1, wherein the lower layer signal (1602) includes lower layer code rate and the upper layer signal (1600) includes an upper layer code rate and the lower layer code rate is less than the upper layer code rate.
3. (CURRENTLY AMENDED) The method of claim 1, wherein at least one of the lower layer signal (1602) and the upper layer signal (1600) has a bandwidth ratio of no more than 0.1.
4. (CURRENTLY AMENDED) The method of claim 1, wherein the upper layer signal (1600) comprises a legacy signal in a satellite television system (800).
5. (CURRENTLY AMENDED) The method of claim 1, wherein the frequency band includes a third signal (1608), the third signal (1608) occupying a majority of the frequency band (1604).

6. (CURRENTLY AMENDED) The method of claim 5, wherein the lower layer signal (1602) and the upper layer signal (1600) are distinct from the third signal (1608).
7. (CURRENTLY AMENDED) The method of claim 5, wherein the lower layer signal (1602) interferes with the third signal (1608).
8. (CURRENTLY AMENDED) The method of claim 5, wherein the upper layer signal (1600) and the lower layer signal (1602) each have a bandwidth ratio of no more than 0.1 and the third signal (1608) has a bandwidth ratio of no more than 0.2.
9. (CURRENTLY AMENDED) A system for transmitting signals according to the method of claim 1, comprising:
 - a first transmitter (107A) transmitting the upper layer signal (1600); and
 - a second transmitter (107B) transmitting the lower layer signal (1602).
10. (CURRENTLY AMENDED) The system of claim 9, wherein the lower layer signal (1602) includes lower layer code rate and the upper layer signal (1600) includes an upper layer code rate and the lower layer code rate is less than the upper layer code rate.
11. (CURRENTLY AMENDED) The system of claim 9, wherein at least one of the lower layer signal (1602) and the upper layer signal (1600) has a bandwidth ratio of no more than 0.1.
12. (CURRENTLY AMENDED) The system of claim 9, wherein the upper layer signal (1600) comprises a legacy signal in a satellite television system (800).
13. (CURRENTLY AMENDED) The system of claim 9, wherein the first transmitter (107A) and the second transmitter (107B) operate in a common satellite (108).
14. (CURRENTLY AMENDED) The system of claim 9, wherein the first transmitter (107A) and the second transmitter (107B) each operate in a different satellite (108).

15. (CURRENTLY AMENDED) The system of claim 9, further comprising a third transmitter (~~107C~~) transmitting a third signal (~~1608~~), the third signal (~~1608~~) occupying a majority of the frequency band (~~1608~~).

16. (CURRENTLY AMENDED) The system of claim 15, wherein the lower layer signal (~~1602~~) and the upper layer signal (~~1600~~) are distinct from the third signal (~~1608~~).

17. (CURRENTLY AMENDED) The system of claim 15, wherein the lower layer signal (~~1602~~) interferes with the third signal (~~1608~~).

18. (CURRENTLY AMENDED) The system of claim 15, wherein the upper layer signal (~~1600~~) and the lower layer signal (~~1602~~) each have a bandwidth ratio of no more than 0.1 and the third signal (~~1608~~) has a bandwidth ratio of no more than 0.2.

19. (CURRENTLY AMENDED) The system of claim 15, wherein at least two of the first transmitter (~~107A~~), the second transmitter (~~107B~~) and the third transmitter (~~107C~~) operate in a common satellite (~~108~~).